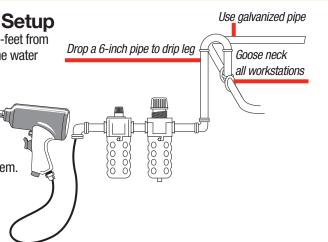
AIR SYSTEM SETUP - AIR EQUIPMENT ESTIMATING GUIDE

Important Steps to an Air System Setup

- 1. Main-line filter and regulator should be installed at least 20-feet from the compressor. The air will cool down, allowing much of the water vapor to condense naturally for removal by filtration.
- All line drops (workstations) should be taken from the top of the main line. This prevents water from flowing into branch lines.
- 3. Galvanized pipe is recommended when building an air system.

Follow illustration to the right when building a workstation drop.



Air Equipment Estimating Guide

Always use free air (CFM) and pressure (PSI) specifications from the nameplate on the device or from the manufacturer. Free air figures (in the table below) are averages and may differ by specific brand.

INDUSTRIAL EQUIPMENT CFM REQUIREMENTS BASED ON NORMAL USAGE

Miscellaneous Portable Tools at 70 to 90 PSI

Tools CFM Drill, ¼" to ¾" 6.3 Drill, ¾" to ¾" 8.8 Screwdriver, #2 to #6 Screw 3.0 Screwdriver, #2 to #6 Screw 6.0 Tapper, to ¾" 5.0 Nutsetters, to ¾" 6.0 Nutsetters, to ¾" 7.5 Impact Wrench, ¼" 3.8 Impact Wrench, ¾" 5.0 Impact Wrench, ¾" 5.0 Impact Wrench, ¾" 5.0 Impact Wrench, ¾" 7.5 Impact Wrench, ¾" 7.5 Impact Wrench, ¾" 8.8 Impact Wrench, ¾" 8.8 Impact Wrench, 1¼" 13.8 Die Grinder, Small 3.8 Die Grinder, Medium 6.0 Horizontal Grinder, 6" 15.0 Horizontal Grinder, 6" 15.0 Vertical Grinders and Sanders, 5" Pad 8.8 Vertical Grinders and Sanders, 9" Pad 17.5 Burring Tool, Large 6.0 Rammers, Small 3.3 Rammers, Medium 8.5 Rammers, Medium <th></th> <th></th>		
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Screwdriver, #2 to #6 Screw 3.0 Screwdriver, #6 to 5/16" Screw 6.0 Tapper, to 3/6" 5.0 Nutsetters, to 3/6" 6.0 Nutsetters, to 3/6" 6.0 Nutsetters, to 3/6" 6.0 Nutsetters, to 3/6" 6.0 Nutsetters, to 3/6" 7.5 Impact Wrench, 1/4" 3.8 Impact Wrench, 3/6" 7.5 Impact Wrench, 3/6" 7.5 Impact Wrench, 1/4" 13.8 Die Grinder, Small 3.8 Die Grinder, Small 3.8 Die Grinder, Medium 6.0 Horizontal Grinder, 4" 15.0 Horizontal Grinder, 8" 20.0 Vertical Grinders and Sanders, 5" Pad 8.8 Vertical Grinders and Sanders, 9" Pad 17.5 Burring Tool, Small 3.8 Burring Tool, Small 3.8 Burring Tool, Small 3.		
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Die Grinder, Medium6.0Horizontal Grinder, 2"5.0Horizontal Grinder, 4"15.0Horizontal Grinder, 6"15.0Horizontal Grinder, 8"20.0Vertical Grinders and Sanders, 5" Pad8.8Vertical Grinders and Sanders, 7" Pad15.0Vertical Grinders and Sanders, 9" Pad17.5Burring Tool, Small3.8Burring Tool, Large6.0Rammers, Medium8.5Rammers, Large10.0Backfill Tamper6.3Compression Riveter0.2 cu. ft. per cycleNailers and Staplers5.0 to 8.0Riveter6.0Paint Spray Gun5.0Scaling Hammer7.5Riveting Hammer7.5Circular Saw, 8"11.3Circular Saw, 12"16.3Lightweight Chain Saw7.0		
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Horizontal Grinder, 4"15.0Horizontal Grinder, 6"15.0Horizontal Grinder, 8"20.0Vertical Grinders and Sanders, 5" Pad8.8Vertical Grinders and Sanders, 7" Pad15.0Vertical Grinders and Sanders, 9" Pad17.5Burring Tool, Small3.8Burring Tool, Large6.0Rammers, Small3.3Rammers, Medium8.5Rammers, Large10.0Backfill Tamper6.3Compression Riveter0.2 cu. ft. per cycleNailers and Staplers5.0 to 8.0Riveter6.0Paint Spray Gun5.0Scaling Hammer7.5Riveting Hammer7.5Circular Saw, 8"11.3Circular Saw, 12"16.3Lightweight Chain Saw7.0	Die Grinder, Medium	6.0
Horizontal Grinder, 6"15.0Horizontal Grinder, 8"20.0Vertical Grinders and Sanders, 5" Pad8.8Vertical Grinders and Sanders, 7" Pad15.0Vertical Grinders and Sanders, 9" Pad17.5Burring Tool, Small3.8Burring Tool, Large6.0Rammers, Small3.3Rammers, Medium8.5Rammers, Large10.0Backfill Tamper6.3Compression Riveter0.2 cu. ft. per cycleNailers and Staplers5.0 to 8.0Riveter6.0Paint Spray Gun5.0Scaling Hammer7.5Riveting Hammer7.5Circular Saw, 8"11.3Circular Saw, 12"16.3Lightweight Chain Saw7.0	Horizontal Grinder, 2"	5.0
Horizontal Grinder, 8"20.0Vertical Grinders and Sanders, 5" Pad8.8Vertical Grinders and Sanders, 7" Pad15.0Vertical Grinders and Sanders, 9" Pad17.5Burring Tool, Small3.8Burring Tool, Large6.0Rammers, Small3.3Rammers, Medium8.5Rammers, Large10.0Backfill Tamper6.3Compression Riveter0.2 cu. ft. per cycleNailers and Staplers5.0 to 8.0Riveter6.0Paint Spray Gun5.0Scaling Hammer7.5Riveting Hammer7.5Circular Saw, 8"11.3Circular Saw, 12"16.3Lightweight Chain Saw7.0	Horizontal Grinder, 4"	15.0
Vertical Grinders and Sanders, 5" Pad8.8Vertical Grinders and Sanders, 7" Pad15.0Vertical Grinders and Sanders, 9" Pad17.5Burring Tool, Small3.8Burring Tool, Large6.0Rammers, Small3.3Rammers, Medium8.5Rammers, Large10.0Backfill Tamper6.3Compression Riveter0.2 cu. ft. per cycleNailers and Staplers5.0 to 8.0Riveter6.0Paint Spray Gun5.0Scaling Hammer7.5Riveting Hammer7.5Circular Saw, 8"11.3Circular Saw, 12"16.3Lightweight Chain Saw7.0	Horizontal Grinder, 6"	15.0
Vertical Grinders and Sanders, 7" Pad15.0Vertical Grinders and Sanders, 9" Pad17.5Burring Tool, Small3.8Burring Tool, Large6.0Rammers, Small3.3Rammers, Medium8.5Rammers, Large10.0Backfill Tamper6.3Compression Riveter0.2 cu. ft. per cycleNailers and Staplers5.0 to 8.0Riveter6.0Paint Spray Gun5.0Scaling Hammer7.5Riveting Hammer7.5Circular Saw, 8"11.3Circular Saw, 12"16.3Lightweight Chain Saw7.0	Horizontal Grinder, 8"	20.0
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Rammers, Small3.3Rammers, Medium8.5Rammers, Large10.0Backfill Tamper6.3Compression Riveter0.2 cu. ft. per cycleNailers and Staplers5.0 to 8.0Riveter6.0Paint Spray Gun5.0Scaling Hammer7.5Riveting Hammer7.5Circular Saw, 8"11.3Circular Saw, 12"16.3Lightweight Chain Saw7.0	Burring Tool, Large	6.0
Rammers, Large10.0Backfill Tamper6.3Compression Riveter0.2 cu. ft. per cycleNailers and Staplers5.0 to 8.0Riveter6.0Paint Spray Gun5.0Scaling Hammer3.0Chipping Hammer7.5Riveting Hammer7.5Circular Saw, 8"11.3Circular Saw, 12"16.3Lightweight Chain Saw7.0	Rammers, Small	3.3
Backfill Tamper6.3Compression Riveter0.2 cu. ft. per cycleNailers and Staplers5.0 to 8.0Riveter6.0Paint Spray Gun5.0Scaling Hammer3.0Chipping Hammer7.5Riveting Hammer7.5Circular Saw, 8"11.3Circular Saw, 12"16.3Lightweight Chain Saw7.0	Rammers, Medium	8.5
Compression Riveter0.2 cu. ft. per cycleNailers and Staplers5.0 to 8.0Riveter6.0Paint Spray Gun5.0Scaling Hammer3.0Chipping Hammer7.5Riveting Hammer7.5Circular Saw, 8"11.3Circular Saw, 12"16.3Lightweight Chain Saw7.0	Rammers, Large	10.0
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Circular Saw, 12"16.3Lightweight Chain Saw7.0		11.3
Lightweight Chain Saw 7.0		
		21.8

AUTOMOTIVE EQUIPMENT CFM REQUIREMENTS BASED ON TOOLS BEING USED 25% OF THE TIME

Portable	Equipment	
Tools	PSI Range	CFM
Air Filter Cleaner	70 to 100	3.0
Body Polisher	70 to 100	2.0
Body Sander, Orbital	70 to 100	5.0
Brake Tester	70 to 100	3.5
Carbon Remover	70 to 100	3.0
Dusting Blow Gun	90 to 100	2.5
Drill, 1/16" to 3/8"	70 to 90	4.0
Impact Wrench, ¾" Square Drive	70 to 90	2.0
Impact Wrench, ½" Square Drive	70 to 90	3.5
Impact Wrench, 3/4" Square Drive	70 to 90	7.5
Impact Wrench, 1" Square Drive	70 to 90	10.0
Die Grinder	70 to 90	5.0
Vertical Disc Sanders	90 to 100	10.0
Filing/Sawing Machine, Small	90 to 100	3.0
Filing/Sawing Machine, Large	90 to 100	5.0
Burring Tool	90 to 100	5.0
Tire Rim Stripper	125 to 150	6.0
Tire Changer	125 to 150	5.5
Tire Inflation Line	125 to 150	1.5
Tire Spreader	125 to 150	1.0
Air Hammer	90 to 100	4.0
Tire Hammer	90 to 100	12.0
Bead Breaker	125 to 150	12.0
Spring Oiler	90 to 100	4.0
Spray Gun Engine Cleaner	90 to 100	5.0
Production Paint Spray Gun	90 to 100	8.5
Touch-Up Paint Spray Gun	90 to 100	3.5
Undercoat Paint Spray Gun	90 to 100	19.0
Grease Gun	120 to 150	3.0
Hydraulic Lift	145 to 175	6.0
Hydraulic Floor Jack	125 to 150	6.0
Pneumatic Garage Door	120 to 150	3.0
Radiator Tester	90 to 100	1.0
Transmission/Differential Flusher	70 to 100	3.0
Fender Hammer	70 to 100	9.0
Medium-Duty Sander	70 to 100	40.0